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Handwritten signature and stamp: *Handwritten signature* OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/072,975

DATE: 03/01/2002

TIME: 10:45 03

Input Set : A:\AM-102.P.1.1US.txt

Output Set: N:\CRF3\03012002\J072975.raw

```

3 <110> APPLICANT Active Motif
4     Efimov, Vladimir
5     Fernandez Joseph
6     Archdeacon, Dorothy
7     Archdeacon, John
8     Chakhmakhcheau, Oksana
9     Buryakova, Alla
10    Choob, Mikhail
11    Hondorp, Kyle
13 <120> TITLE OF INVENTION: OLIGONUCLEOTIDE ANALOGUES, METHODS OF SYNTHESIS AND METHODS
OF USE
15 <130> FILE REFERENCE: AM102.P.1.1US
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/072,975
C--> 17 <141> CURRENT FILING DATE: 2002-02-09
17 <150> PRIOR APPLICATION NUMBER: US 60/189,190
18 <151> PRIOR FILING DATE: 2000-03-14
20 <150> PRIOR APPLICATION NUMBER: US 60/250,334
21 <151> PRIOR FILING DATE: 2000-11-30
23 <150> PRIOR APPLICATION NUMBER: 09/805,296
24 <151> PRIOR FILING DATE: 2001-03-13
26 <150> PRIOR APPLICATION NUMBER: PCT/US01/0811
27 <151> PRIOR FILING DATE: 2001-03-13
29 <160> NUMBER OF SEQ ID NOS: 36
31 <170> SOFTWARE: PatentIn version 3.1
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 15
35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE
39 <223> OTHER INFORMATION: Synthetic Construct
41 <220> FEATURE:
42 <221> NAME/KEY: misc_feature
43 <223> OTHER INFORMATION: Synthetic Construct
46 <400> SEQUENCE: 1
47 ctggaggaag atctg
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 15
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Synthetic Construct
58 <220> FEATURE:
59 <221> NAME/KEY: misc_feature
60 <223> OTHER INFORMATION: Synthetic Construct

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15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/072,975

DATE: 03/01/2002

TIME: 14:45:13

Input Set : A:\AM-102.P.1.1US.txt

Output Set: N:\CRF3\03012002\J072975.raw

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63 <400> SEQUENCE: 2
64 atgaaacccga aatct 15
67 <210> SEQ ID NO: 3
68 <211> LENGTH: 14
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
73 <223> OTHER INFORMATION: Synthetic Construct
75 <220> FEATURE:
76 <221> NAME/KEY: misc_feature
77 <223> OTHER INFORMATION: Synthetic Construct
80 <400> SEQUENCE: 3
81 aaactcacac ctgc 14
84 <210> SEQ ID NO: 4
85 <211> LENGTH: 15
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Synthetic Construct
92 <220> FEATURE:
93 <221> NAME/KEY: misc_feature
94 <223> OTHER INFORMATION: Synthetic Construct
97 <400> SEQUENCE: 4
98 tccgttatgc acgaa 15
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 15
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Synthetic Construct
109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <223> OTHER INFORMATION: Synthetic Construct
114 <400> SEQUENCE: 5
115 aaccactaca cccag 15
118 <210> SEQ ID NO: 6
119 <211> LENGTH: 15
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Synthetic Construct
126 <220> FEATURE:
127 <221> NAME/KEY: misc_feature
128 <223> OTHER INFORMATION: Synthetic Construct
131 <400> SEQUENCE: 6
132 gggagataag gatcc 15
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 15
137 <212> TYPE: DNA

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/072,975

DATE: 05/11/2002

TIME: 10:45:13

Input Set : A:\AM-102.P.1.1US.txt

Output Set: N:\CRF3\03012002\J072975.raw

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138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Synthetic Construct
143 <220> FEATURE:
144 <221> NAME/KEY: misc_feature
145 <223> OTHER INFORMATION: Synthetic Construct
148 <400> SEQUENCE: 7
149 actactacta ctact                                     15
152 <210> SEQ ID NO: 8
153 <211> LENGTH: 18
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Synthetic Construct
160 <220> FEATURE:
161 <221> NAME/KEY: misc_feature
162 <223> OTHER INFORMATION: Synthetic Construct
165 <400> SEQUENCE: 8
166 aqtaqtagta qtaqtagt                                 18
169 <210> SEQ ID NO: 9
170 <211> LENGTH: 16
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Synthetic Construct
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <223> OTHER INFORMATION: Synthetic Construct
182 <400> SEQUENCE: 9
183 tttttttttt tttttt                                   16
186 <210> SEQ ID NO: 10
187 <211> LENGTH: 15
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Synthetic Construct
194 <220> FEATURE:
195 <221> NAME/KEY: misc_feature
196 <223> OTHER INFORMATION: Synthetic Construct
199 <400> SEQUENCE: 10
200 tttttttttt ttttt                                     15
203 <210> SEQ ID NO: 11
204 <211> LENGTH: 15
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Synthetic Construct
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature

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RAW SEQUENCE LISTING

PATIENT APPLICATION: US/10/072,975

DATE: 03/01/2002

TIME: 12:45:03

Input Set : A:\AM-102.P.1.1US.txt

Output Set : N:\CRF3\03012002\J072975.raw

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213 <223> OTHER INFORMATION: Synthetic Construct
216 <400> SEQUENCE: 11
217 tttttctttt tttt
218 <210> SEQ ID NO: 12
219 <211> LENGTH: 15
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Synthetic Construct
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <223> OTHER INFORMATION: Synthetic Sequence
227 <400> SEQUENCE: 12
228 tttttttctt tttt
229 <210> SEQ ID NO: 13
230 <211> LENGTH: 18
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Synthetic Construct
235 <220> FEATURE:
236 <221> NAME/KEY: misc_feature
237 <223> OTHER INFORMATION: Synthetic Construct
238 <400> SEQUENCE: 13
239 ctgcaaaagca caccatga
240 <210> SEQ ID NO: 14
241 <211> LENGTH: 18
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Synthetic Construct
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <223> OTHER INFORMATION: Synthetic Construct
249 <400> SEQUENCE: 14
250 ctgcaaaagca caccatga
251 <210> SEQ ID NO: 15
252 <211> LENGTH: 24
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Synthetic Construct
257 <220> FEATURE:
258 <221> NAME/KEY: misc_feature
259 <223> OTHER INFORMATION: Synthetic Construct
260 <400> SEQUENCE: 15
261 gctcaccatg gatgatgata tcgc
262 <210> SEQ ID NO: 16
263 <211> LENGTH: 24

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/072,975

DATE: 05/01/2002

TIME: 10:45:03

Input Set : A:\AM-102.P.1.1US.txt

Output Set: N:\CRF3\03012002\J072975.raw

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291 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Synthetic Construct
296 <220> FEATURE:
297 <221> NAME/KEY: misc_feature
298 <223> OTHER INFORMATION: Synthetic Construct
301 <400> SEQUENCE: 16
302 ggaagagcaa tgatctgat cttc
305 <210> SEQ ID NO: 17
306 <211> LENGTH: 20
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Synthetic Construct
313 <220> FEATURE:
314 <221> NAME/KEY: misc_feature
315 <223> OTHER INFORMATION: Synthetic Construct
318 <400> SEQUENCE: 17
319 ttatgaacccc tggccaaagg
322 <210> SEQ ID NO: 18
323 <211> LENGTH: 20
324 <212> TYPE: DNA
325 <213> ORGANISM: Artificial Sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: Synthetic Construct
330 <220> FEATURE:
331 <221> NAME/KEY: misc_feature
332 <223> OTHER INFORMATION: Synthetic Construct
335 <400> SEQUENCE: 18
336 cttaactcctt ggaggccatg
339 <210> SEQ ID NO: 19
340 <211> LENGTH: 16
341 <212> TYPE: DNA
342 <213> ORGANISM: Homo sapiens
344 <400> SEQUENCE: 19
345 ttgtctcag tcagtg
348 <210> SEQ ID NO: 20
349 <211> LENGTH: 16
350 <212> TYPE: DNA
351 <213> ORGANISM: Homo sapiens
353 <400> SEQUENCE: 20
354 cactgaacttg agacca
357 <210> SEQ ID NO: 21
358 <211> LENGTH: 16
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial Sequence
362 <220> FEATURE:
363 <223> OTHER INFORMATION: Synthetic Construct. 1 base mismatch from SEQ ID NO: 20

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/072,975

DATE: 03/01/2002

TIME: 11:45:04

Input Set : A:\AM-102.P.1.1US.txt

Output Set: N:\CRF3\03012002\J072975.raw

L:17 M:270 C: Current Application Number differs. Replaced Current Application No

L:17 M:271 C: Current Filing Date differs. Replaced Current Filing Date